

AMENDMENT

Amendment to Claims

Please add the following claims as shown below.

24. (Newly added) A wireless communication device comprising:

a searcher having at least first and second correlators to correlate a received signal with a pseudonoise sequence provided to the first and second correlators;

a delay line operably coupled to a multiplexer to provide at least first and second delays to the pseudonoise sequence provided to the first and second correlators, respectively; and

a next location unit to decide to change at least the first delay of the first correlator based, at least in part, on an output of the first correlator.

25. (Newly added) The wireless communication device of claim 24, wherein at least one

correlator of said at least first and second correlators is able to correlate the received signal within a correlation time selected from a group consisting of a first dwell time, and a sum of the first dwell time and a second dwell time.

26. (Newly added) The wireless communication device of claim 24, wherein the next location unit is able to decide to change at least the first delay by comparing an estimated absolute value of the output of the first correlator to a threshold.

27. (Newly added) The wireless communication device of claim 26, wherein the threshold comprises a first dwell time.

28. (Newly Added) A method comprising:

correlating a received signal with a pseudonoise sequence using two or more correlators;
and

changing a first delay applied to the psuedonoise sequence of at least one correlator of the two or more correlators independently from a second delay applied to the pseudonoise sequence at one other correlator of the two or more correlators based, at least in part, on an output of said at least one correlator.

29. (Newly added) The method of claim 28, wherein correlating comprises:

correlating the received signal within a correlation time selected from a group consisting of a first dwell time and a sum of the first dwell time and a second dwell time.

30. (Newly added) The method of claim 29, wherein changing comprises changing the first delay by comparing an estimated absolute value of the output of said at least one correlator to a threshold.

31. (Newly added) The method of claim 30 further comprising:

correlating the received signal at within the first dwell time to provide a correlation output;

comparing the estimated absolute value of the correlation output to said threshold; and

correlating the received signal at the second dwell time if said threshold is exceeded.

32. (Newly added) The method of claim 30, wherein changing comprises:

changing at least the first delay if said threshold is not exceeded.

33. (Newly added) The method of claim 31 comprising:

identifying a base station based on the result of correlating the received signal during the second dwell time.

34. (Newly added) A cellular communication system comprising:

a mobile station including a searcher having at least first and second correlators, wherein at least the first correlator of the at least first and second correlators is able to correlate to a received signal by changing a first delay applied to a pseudonoise sequence of the received signal at the first correlator independently from a second delay applied to said pseudonoise sequence at the second correlator based, at least in part, on an output of said first correlator.

35. (Newly added) The cellular communication system of claim 34, wherein the searcher comprises:

a delay line operably coupled to a multiplexer to provide at least first and second delays to the pseudonoise sequence provided to the first and second correlators, respectively; and
a next location unit to decide to change at least the first delay of the first correlator based, at least in part, on an output of the first correlator.

36. (Newly added) The cellular communication system of claim 34, wherein at least one correlator of said at least first and second correlators is able to correlate the received signal within a correlation time selected from a group consisting of a first dwell time, and a sum of the first dwell time and a second dwell time.

37. (Newly added) The cellular communication system of claim 35, wherein the next location unit is able to decide to change at least the first delay by comparing an estimated absolute value of the output of said at least first correlator to a threshold.

38. (Newly added) A communication device comprising:
an antenna to receive a signal having a pseudonoise sequence;
a mobile station including a searcher having at least first and second correlators, wherein at least the first correlator of the at least first and second correlators is able to correlate to a received signal by changing a first delay applied to a pseudonoise sequence of the received signal at the first correlator independently from a second delay applied to said pseudonoise sequence at the second correlator based, at least in part, on an output of said first correlator.

39. (Newly added) The communication device of claim 38, wherein the searcher comprises:
a delay line operably coupled to a multiplexer to provide at least first and second delays to the pseudonoise sequence provided to the first and second correlators, respectively; and
a next location unit to decide to change at least the first delay of the first correlator based, at least in part, on an output of the first correlator.

40. (Newly added) The communication device of claim 38, wherein at least one correlator of said at least first and second correlators is able to correlate the received signal within a

correlation time selected from a group consisting of a first dwell time, and a sum of the first dwell time and a second dwell time.

41. (Newly added) The communication device of claim 39, wherein the next location unit is able to decide to change at least the first delay by comparing an estimated absolute value of the output of said at least first correlator to a threshold.

42. (Newly added) An article comprising: a storage medium, having stored thereon instructions, that when executed, result in:
_____ correlating a received signal with a pseudonoise sequence using two or more correlators;
and
_____ changing a first delay applied to the psuedonoise sequence of at least one correlator of the two or more correlators independently from a second delay applied to the pseudonoise sequence at one other correlator of the two or more correlators based, at least in part, on an output of said at least one correlator.

43. (Newly added) The article of claim 42, wherein the instructions when executed, result in:
_____ correlating the received signal within a correlation time selected from a group consisting of a first dwell time and a sum of the first dwell time and a second dwell time.

44. (Newly added) The article of claim 42, wherein the instruction of changing when executed, result in:
_____ changing the first delay by comparing an estimated absolute value of the output of said at least one correlator to a threshold.

45. (Newly added) The article of claim 44, wherein the instructions when executed, result in:
_____ correlating the received signal at within the first dwell time to provide a correlation output;
_____ comparing the estimated absolute value of the correlation output to said threshold; and
_____ correlating the received signal at the second dwell time if said threshold is exceeded.

46. (Newly added) The article of claim 44, wherein the instructions when executed, result in:
changing at least the first delay if said threshold is not exceeded.

47. (Newly added) The article of claim 46, wherein the instructions when executed, result in:
identifying a base station based on the result of correlating the received signal
during the second dwell time.